

# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/524,326	03/13/2000	Martin Morris	WIDC-005/00US	7223	
23446	7590 01/11/2005		EXAMINER		
MCANDREWS HELD & MALLOY, LTD 500 WEST MADISON STREET			nguyen, hanh n		
SUITE 3400	INDISON STREET		ART UNIT	PAPER NUMBER	
CHICAGO,	IL 60661		2662		
			DATE MAILED: 01/11/2009	DATE MAILED: 01/11/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

			e <b>X</b>			
	Application No.	Applicant(s)				
	09/524,326	MORRIS, MARTII	N			
Office Action Summary	Examiner	Art Unit				
	Hanh Nguyen	2662				
The MAILING DATE of this communication ap	opears on the cover sheet w	with the correspondence ac	dress			
Period for Reply	LV IO OFT TO EVOIDE &	MONTHYO) FROM				
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a recommunication of the period for reply specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however, may a ply within the statutory minimum of the d will apply and will expire SIX (6) MC te, cause the application to become a	a reply be timely filed  nirty (30) days will be considered time  DNTHS from the mailing date of this of the considered time (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 12.	<i>July 2004</i> .					
2a)⊠ This action is <b>FINAL</b> . 2b)☐ Th	is action is non-final.					
3) Since this application is in condition for allow	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-16</u> is/are pending in the applicatio	n.					
4a) Of the above claim(s) is/are withdra	awn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-16</u> is/are rejected.						
•	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examir	ner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the corre	· ·	<del>-</del> · · · ·	` '			
11)☐ The oath or declaration is objected to by the E	Examiner. Note the attache	ed Office Action or form P	TO-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documer						
2. Certified copies of the priority documer			<b>.</b>			
3. Copies of the certified copies of the pri	•	n received in this National	Stage			
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
200 the attached detailed Office detail for a lie	s. or the contined copies fic	. 10001/00.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	o(s)/Mail Date	0.450)			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	8) 5)	f Informal Patent Application (PT0 	U-152)			

Application/Control Number: 09/524,326

Art Unit: 2662

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 - 16 are rejected under 35 U.S.C. 102(e) as being anticipated by Haartsen (USP 6,590,928 B1).

Referring to Claim 1, Haartsen discloses a method for communicating within a system including a master unit and one or more slave units (col.12, lns. 29-31), said method comprising the steps of assigning a member address to a first slave unit (a slot assigned to a slave in a master address, col.12, lines 25-30 & lines 35-40); said member address corresponding to a selected time slot of a plurality of time slots detined by a system clock (col.12, lns. 15-27), said time slots repeating in cycles; assigning to said first slave unit a first extended address (a 3-bit member address in a header of packet, see col.12, lines 40-45) associated with an occurrence of said selected time slot (a slot assigned in a master address) within at least a selected one of said cycles (system clock); and transmitting information from said first slave unit to said master unit during said occurrence of said selected time slot (see col. 12, lns. 17-55).

Referring to Claim 2, Haartsen discloses the method of claim 1 further including

Page 3

the step of assigning to a second slave unit said member address and a second extended address associated with a different occurrence of said selected time slot within one or more of said cycles, said second slave unit being disposed to transmit information during said different occulrence of said selected time slot (up to 8 slave units can be serviced at a time, col. 12, lns. 27-49).

Referring to Claim 3, Haartsen discloses the method of claim 2 further including the step of determining whether less than a maximum permitted number of said slave units have been assigned to said member address, said maximum permitted number of slave units being determined by performing a division operation in which a bandwidth associated with said member address is divided by a bandwidth allocated to said first slave unit, said maximum permitted number of slave units being no greater than a quotient of said division operation (the bandwidth is divided by 8, so up to 8 slaves can be accommodated by the master unit, (col. 12, lns. 28-49).

Referring to Claim 4, Haartsen discloses the method of claim 1 further including the step of polling said first slave unit during one of said plurality of time slots immediately preceding said occurrence of said selected time slot (col. 12, lns. 28-49).

Referring to Claim 5, Haartsen discloses the method of claim 4 further including the step of polling a second slave unit during one of said plurality of time slots immediately preceding said different occuln-ence of said selected time slot (col.12, lns. 28-49).

Referring to Claim 6, Haartsen discloses the method of claim 1 further including the step of synchronizing said master unit, said first slave unit and said second slave unit to said system clock, a first member (extended) address and a second member (extended) address

con'esponding to tirst and second states of said system clock (col.12, lns16-40, the member addresses identify when the slave unit is able to respond).

Referring to Claim 7, Haartsen discloses the method of claim 1 wherein said step of assigning a member address includes the step of determining whether a bandwidth associated with extended addresses corresponding to said member address is no less than a desired bandwidth of said first slave unit (the system can handle up to 8 users, if more than 8 devices are attempting to connect to the master device, the master has insufficient bandwidth to handle the additional unit, col. 12, lns. 45-50).

Referring to Claim 8, Haartsen discloses the method of claim 1 further including the step of assigning a second member address to a second slave unit, said second member address corresponding to a different selected time slot of saidplurality of time slots, said second slave being disposed to transmit information during each occurrence of said different selected time slot (col. 12, lns. 15-55).

Referring to Claim 9, Haartsen discloses the method of claim 8 further including the step of assigning, to a third slave unit, said first member address and a second extended address associated with a different occurrence of said selected time slot within one or more of said cycles, said third slave unit being disposed to transmit information during said different occurrence of said selected time slot (col. 12, lns. 1 5-55).

Referring to Claim 10, Haartsen discloses the method of claim 8 further including the step of polling said first slave unit during one of said plurality of time slots

Application/Control Number: 09/524,326

Art Unit: 2662

immediately preceding said occurrence of said selected time slot, and polling said second slave unit during the one of said plurality of time slots immediately preceding said different selected time slot (col. 12, lns. 28-49).

Referring to Claim 11, Haartsen discloses a communication system in which a sequence of time slots repeats in cycles, said communication system comprising: a first slave unit; and a master unit, said master unit including means for assigning a member address to said first slave unit (col.12, lns 15-31), said member address corresponding to a selected one of said sequence of time slots; means for assigning to said first slave unit a first member (extended) address associated with an occurrence of said selected one of said sequence of time slots within one or more of said cycles (col. 12, lns. 28-49), said first slave unit being disposed to transmit information during said occurrence of said selected one of said sequence of time slots (col. 12, lns. 35-39).

Referring to Claim 12, Haartsen discloses the communication system of claim 11 further including a second slave unit; said master unit including means for assigning to said second slave unit said member address and a second extended address associated with a different occurrence of said selected one of said sequence of time slots within one or more of said cycles, said second slave unit being disposed to transmit information during said different occurrence of said selected one of said sequence of time slots (col.12, ln 28-55).

Referring to Claim 13, Haartsen discloses the communication system of claim

1 1 further including a second slave unit, said master unit including means for assigning a second member address to said second slave unit, said second member address corresponding to a different selected time slot of said sequence of time slots, said second slave unit being disposed

to transmit information during each occurrence of said different selected time slot (col. 12, lns. 28-49).

Referring to Claim 14, Haartsen discloses a communication system in which a master unit communicates with one or more slave units during a sequence of time slots repeating in cycles (col.12, lns 15-31), said master unit comprising: means for polling a first slave unit (col. 1 2, lns. 34-39); means for asigning a master (member) address to said first slave unit, said member address corresponding to a selected one of said sequence of time slots (col. 12, lns. 15-27); and means for assigning to said first slave unit a first extended address associated with an occurrence of said selected one of said sequence of time slots within one or more of said cycles, said first slave unit being disposed to transmit information during said occurrence of said selected one of said sequence of time slots (col.12, ln 15-55).

Referring to Claim 1 5, Haartsen discloses the master unit of claim 14 further including means for assigning to a second slave unit said member address and a second extended address usociated with a different occurrence of said selected one of said sequence of time slots within one or more of said cycles wherein said second slave unit is disposed to transmit information during each occurrence of said selected one of said sequence of time slots (col. 12, lns. 28-50).

Referring to Claim 16, Haartsen discloses the master unit of claim 14 further including means for assigning a second member address to a second slave unit, said second member address corresponding to a different selected time slot of said sequence of time slots wherein said second slave unit is disposed to transmit information during each occurrence of said different selected time slot (col.12, lns 15-55).

Application/Control Number: 09/524,326 Page 7

Art Unit: 2662

## Response to Arguments

Applicant's arguments filed on 7/12/04 have been fully considered but they are not persuasive.

Applicant argues Haartsen does not disclose a member address corresponds to a select time slot; and a first extended address associates with said selected time slot.

According to the amended specification filed on 10/24/03, an extended address assigned to a slave is to distinguish it from other slaves within the piconet. Therefore, the extended address of a slave in Haartsen is identified by a 3-bit address in a headet of packet to distinguish it from another slave, (see col.12, lines 40-45).

According to Haartsen, the slaves units in the piconet establish their connections via a selected master unit which schedules their transmissions by a polling scheme. The master unit polls a slave in its assigned slot (receive RX slot, col.12, lines 35-40) and the slave responds in its assigned TX slot. Every slave unit is identified by a 3-bit member address in the packet header(extended address of slave) see col.12, lines 40-45). Therefore, there is an association between the assigned slot (RX slot) and the extended address (3-bit member address in packet header) assigned to the slave.

Therefore, examiner believes that Haartsen overcomes the claimed limitations and maintains the rejections anticipated by Haartsen.

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Page 8

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

.Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hanh Nguyen whose telephone number is 571 272 3092. The examiner can normally be reached on Monday-Friday from 8AM to 5PM. The examiner can also be reached on alternate

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou, can be reached on 571 272 3088. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 09/524,326

Art Unit: 2662

Page 9